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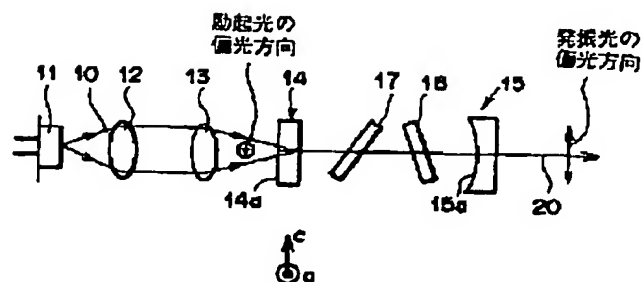
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TITLE : SEMICONDUCTOR LASER
STIMULATING SOLID-STATE LASER



ABSTRACT : PROBLEM TO BE SOLVED: To realize a semiconductor laser stimulating solid-state laser which is capable of preventing a laser beam from changing to an ellipse in cross section, where an Nd:YVO4 crystal is used as a laser medium in the solid-state laser.

SOLUTION: A semiconductor laser stimulating solid-state laser excites an Nd:YVO4 crystal 14 by a laser beam (exciting beam) 10 emitted from a semiconductor laser 11, where the Nd:YVO4 crystal 14 is so arranged as to make its axis a parallel in the direction of rectilinear polarization of the exciting beam 10, a polarizing element 17 which makes the direction of rectilinear polarization of the oscillation beam 20 of the solidstate laser parallel with the axis c of the Nd:YVO4 crystal 14 is inserted in a resonator, and the axes a and c share in absorption and oscillation respectively.

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